

LIST OF PUBLICATIONS

1. **Elayaraja, K.**, Ahymah Joshy, M.I., Suganthi, R.V., Narayana Kalkura, S., Palanichamy, M., Ashok, M., Sivakumar, V.V., Kulriya, P.K., Sulania, I., Kanjilal, D. and Asokan, K. “125MeV Si⁹⁺ ion irradiation of calcium phosphate thin film coated by rf-magnetron sputtering technique”, *Appl. Surf. Sci.*, Vol. 257, pp. 2134-2141, 2011.
2. **Elayaraja, K.**, Prakash Parthiban, S., Ramalingom, S., Bocelli and Narayana Kalkura, S. “Tetraaquadiglycinemagnesium (II) hexaaquamagnesium (II) bis(sulfate)”, *Acta Crystallogr. Sect. E*, Vol. 63, pp. m2901-m2902, 2007.
3. Ahymah Joshy, M. I., **Elayaraja, K.**, Suganthi, R.V., Sarath Chandra Veerla and Narayana Kalkura, S. “In vitro sustained release of amoxicillin from lanthanum hydroxyapatite nanorods”, *Curr. Appl. Phys.*, Vol. 11, pp. 1100-1106, 2011.
4. Suganthi, R.V., **Elayaraja, K.**, Ahymah Joshy, M.I., Sarath Chandra, V., Girija, E.K. and Narayana Kalkura, S. “Fibrous growth of strontium substituted hydroxyapatite and its drug release”, *Mater. Sci. Eng. C*, Vol. 31, pp. 593-599, 2011.
5. Ahymah Joshy, M. I., **Elayaraja, K.**, Suganthi, R.V. and Narayana Kalkura, S. “Mineralization of oriented nano hydroxyapatite in photopolymerized polyacrylamide gel matrix”, *Cryst. Res. Technol.*, Vol. 45, No. 5, pp. 551-556, 2010.
6. Prakash Parthiban, S., **Elayaraja, K.**, Girija, E. K., Yokogawa, Y., Kesavamoorthy, R., Palanichamy, M., Asokan, K. and Narayana Kalkura, S. “Preparation of thermally stable nanocrystalline hydroxyapatite by hydrothermal method”, *J. Mater. Sci.: Mater. Med.*, Vol. 20, pp. S77-S83, 2009.
7. Suganthi, R. V., Prakash Parthiban, S., **Elayaraja, K.**, Girija, E. K., Kulariya, P., Katharria, Y. S., Singh, F., Asokan, K., Kanjilal, D. and Narayana Kalkura, S. “Investigations on the in vitro bioactivity of swift heavy oxygen ion irradiated hydroxyapatite”, *J. Mater. Sci.: Mater. Med.*, Vol. 20, pp. S271-S275, 2009.

8. Vani, R., Girija, E. **K.**, **Elayaraja**, K., Prakash Parthiban, S., Kesavamoorthy, R. and Narayana Kalkura, S. "Hydrothermal synthesis of porous triphasic hydroxyapatite/(α and β) tricalcium phosphate", J. Mater. Sci.: Mater. Med., Vol. 20, pp. S43-S48, 2009.
9. Girija, E. K., Parthiban, S. P., Suganthi, R. V., **Elayaraja**, **K.**, Joshy, M. I. A., Vani, R., Kularia, P., Asokan, K., Kanjilal, D., Yokogawa, Y. and Narayana Kalkura, S. "High energy irradiation a tool for enhancing bioactivity of hydroxyapatite", J. Ceram. Soc. Jpn., Vol. 116, pp.320-324, 2008.
10. Prakash Parthiban, S., Suganthi, R. V., Girija, E. K., **Elayaraja**, **K.**, Kulriya, P. K., Katharria, Y. S., Singh, F., Sulania, I., Tripathi, A., Asokan, K., Kanjilal, D., Yadav, S., Singh, T. P., Yokogawa, Y. and Narayana Kalkura, S. "Effect of swift heavy ion irradiation on hydrothermally synthesized hydroxyapatite ceramics", Nucl. Instr. and Meth. in Phys. Res. B, Vol. 266, pp. 911-917, 2008.

Papers Presented/Accepted in National/International Conferences

1. **Elayaraja**, **K.**, Prakash Parthiban, S., Bocelli, G., Suganthi, R.V., Ahymah Joshy, M.I., Vani, R., Girija, E.K. and Narayana Kalkura, S. "Co-Crystallization of Magnesium Sulphate Heptahydrate (Epsomite) with Glycine", 36th National Seminar on Crystallography held at Department of Crystallography and Biophysics, University of Madras, Chennai on 22nd - 24th January, 2007.
2. Prakash Parthiban, S., **Elayaraja**, **K.**, Girija, E.K., Bocelli, G., Palanichamy, M., Asokan, K. and Narayana Kalkura S. "A novel technique to prepare thermally stable hydroxyapatite", 36th National Seminar on Crystallography held at Department of Crystallography and Biophysics, University of Madras, Chennai on 22nd - 24th January, 2007.
3. Prakash Parthiban, S., Suganthi, R.V., Girija, E.K., **Elayaraja**, **K.**, Kulariya, P., Katharria, Y.S., Singh, F., Sulaniya, I., Tripathi, A., Asokan, K., Kanjilal, D., Yadav, S., Singh, T.P. and Narayana Kalkura, S. "Effect of Swift Heavy Ion Irradiation on Hydrothermally Synthesized Hydroxyapatite", 18th International Conference on ion Beam Analysis organized by School of Physics, University of Hyderabad, Hyderabad, India on 23rd - 28th September, 2007.

4. Suganthi, R.V., Prakash Parthiban, S., **Elayaraja, K.**, Girija, E.K., Kulariya, P., Katharria, Y.S., Singh, F., Sulaniya, I., Tripathi, A., Asokan, K., Kanjilal, D., Yadav, S., Singh, T.P. and Narayana Kalkura, S. “Effect of heavy oxygen ion irradiation on the pure phase of hydroxyapatite and bioactivity”, 18th International Conference on ion Beam Analysis organized by School of Physics, University of Hyderabad, Hyderabad, India on 23rd - 28th September, 2007.
5. **Elayaraja, K.**, Prakash Parthiban, S., Suganthi, R.V., Ahymah Joshy, M.I., Vani, R., Girija, E.K., Bocelli, G. and Narayana Kalkura, S. “Co-Crystallization of Magnesium Sulphate Heptahydrate (Epsomite) With Glycine”, International Conference on Advanced Materials (IUMRS-ICAM) organized by the Materials Research Society of India, held at Hotel Grand Ashok, Bangalore on 8th - 13th October, 2007.
6. Vani, R., Girija, E. K., **Elayaraja, K.**, Prakash Parthiban, S., Kesavamoorthy, R. and Narayana Kalkura, S. “Crystallization of Porous Hydroxyapatite by Hydrothermal Method”, International Conference on Advanced Materials (IUMRS-ICAM) organized by the Materials Research Society of India, held at Hotel Grand Ashok, Bangalore on 8th - 13th October, 2007.
7. **Elayaraja, K.**, Prakash Parthiban, S., Suganthi, R. V., Asokan, K., Sivakumar, V. V., Khan, S. A., Kulriya, P. K., Sulania, I., Tripathi, A., Kanjilal. D. and Narayana Kalkura, S. “125 MeV Si⁹⁺ ion irradiation on Calcium phosphate thin film coated by rf-magnetron sputtering”, 8th Asian Bioceramic Symposium (ABC 2008) Organized by Dept. of Metal. & Mater. Engg., Indian Institute of Technology, Madras, Chennai, on 4th - 6th November, 2008.
8. **Elayaraja, K.**, Girija, E. K. and Narayana Kalkura, S. “Crystallization of Magnesium Sulphate Heptahydrate (Epsomite) with L-Alanine”, 38th National Seminar on Crystallography held at Department of Geology, University of Mysore, Mysore on 11th - 13th, February 2009.
9. Ahymah Joshy, M. I., Vani, R., **Elayaraja, K.**, Suganthi, R. V. and Narayana Kalkura, S. “Mineralization of Calcium phosphate in polymer matrix”, 38th National seminar on Crystallography held at Department of Geology, University of Mysore, Mysore on 11th - 13th February, 2009.

10. **Elayaraja, K.**, Sivaraj Dikeshwar Colon, V., Sarath Chandra, V., Saravana Narendhar, S., Arishya Banu, S. A., Suganthi, R. V., Ahymah Joshy, M. I., Gokula Dhas, K., Jagadeesh, S. and Narayana Kalkura, S. “Freeze dried hydroxyapatite/agarose gel scaffold for bone tissue engineering and drug delivery application” International Conference on Nanomaterials and Nanotechnology (Nano - 2010) held at KSR Campus, Tiruchengode, Coimbatore on 13th - 16th December, 2010.
11. Ahymah Joshy, M. I., **Elayaraja, K.**, Suganthi, R. V. and Narayana Kalkura, “In Vitro Drug Release of Amoxicillin from Lanthanum (La³⁺) Doped Hydroxyapatite”, International Conference on Nanomaterials and Nanotechnology (Nano - 2010) held at KSR Campus, Tiruchengode, Coimbatore on 13th - 16th December, 2010.
12. **Elayaraja, K.**, Ahymah Joshy, M. I., Suganthi, R.V., Vani, R., Sarath Chandra, V., Kathirvel Ganesan, Matthias Epple and Narayana Kalkura, S. “Investigation of antibiotic and anti-cancer drug release from nano-Hydroxyapatite/agarose composite”, 4th Indo-Australian conference on Biomaterials, Tissue Engineering Drug Delivery Systems, held at Sardar Petel University, Vallabh Vidyanagar, Gujarat on 10th - 12th February, 2011.
13. Ahymah Joshy, M. I., **Elayaraja, K.**, Sarath Chandra, V., Suganthi, R. V. and Narayana Kalkura, S. “Freeze dried degradable (gelatin and agarose)/hydroxyapatite scaffolds for drug release and tissue engineering application”, 4th Indo-Australian conference on Biomaterials, Tissue Engineering Drug Delivery Systems, held at Sardar Petel University, Vallabh Vidyanagar, Gujarat on 10th - 12th February, 2011.
14. Suganthi, R.V., **Elayaraja, K.**, Ahymah Joshy, M. I., Sarath Chandra, V., Girija, E. K. and Narayana Kalkura, S. “Fibrous Growth of Strontium Substituted Hydroxyapatite And Its Invitro Studies” 4th Indo-Australian conference on Biomaterials, Tissue Engineering Drug Delivery Systems, held at Sardar Petel University, Vallabh Vidyanagar, Gujarat on 10th - 12th February, 2011.
15. Sarath Chandra, V., Ganga, B., Suganthi, R. V., **Elayaraja, K.**, Ahymah Joshy, M. I., Sofi Beaula, W., Mythili, R., Ganesh Venkatraman, and Narayana Kalkura, S. “Study of Blood Compatibility And Drug Release On Iron Doped Hydroxyapatite” 4th Indo-Australian conference on Biomaterials, Tissue Engineering Drug Delivery Systems, held at Sardar Petel University, Vallabh Vidyanagar, Gujarat on 10th - 12th February, 2011.